PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference MM-VPB60162A		FOR FURTHER A		See Form PCT/IPEA/416			
International application No. International filing date (PCT/IB2004/001350 07.04.2004			(day/month/year)	Priority date (day/month/year) 09.04.2003			
	International Patent Classification (IPC) or national classification and IPC C07D471/04, C07D487/04						
Applicant SB PHARMCO PUERTO RICO INC et al.							
	This report is the international p Authority under Article 35 and t			nis International Preliminary Examining 36.			
2. T	. This REPORT consists of a total of 6 sheets, including this cover sheet.						
	This report is also accompanied	• •	•				
а	a. sent to the applicant and		•				
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b	o. (sent to the Internationa sequence listing and/or t	I Bureau only) a total of (in ables related thereto, in o ce Listing (see Section 80	computer readable form	per of electronic carrier(s)) , containing a m only, as indicated in the Supplemental elemental			
4. T	This report contains indications	relating to the following it	rems:				
[2	Box No. I Basis of the c	pinion					
	☐ Box Ne. II Priority						
[2	☑ Box No. III Non-establish	ment of opinion with rega	ard to novelty, inventive	e step and industrial applicability			
	Box No. IV Lack of unity						
		tement under Article 35(2 citations and explanations		ty, inventive step or industrial ement			
[Box No. VI Certain docur	•					
[☐ Box No. VII Certain defec	ts in the international app	lication	•			
] [Box No. VIII Certain obser	vations on the internation	al application				
Date of	submission of the demand		Date of completion of t	his report			
09.02.2005			23.03.2005				
	and mailing address of the internati nary examining authority:	onal	Authorized Officer	and the Petangener.			
European Patent Office D-80298 Munich			Kyriakakou, G	· · · · · · · · · · · · · · · · · · ·			
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International application No. PCT/IB2004/001350

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-	Box No. I	Basis of the report					
1	. With regard filed, unles	With regard to the language, this report is based on the international application in the language in which it filed, unless otherwise indicated under this item.					
	willon ☐ inte ☐ pub	eport is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of: ernational search (under Rules 12.3 and 23.1(b)) clication of the international application (under Rule 12.4) ernational preliminary examination (under Rules 55.2 and/or 55.3)					
2.	Have been	t to the elements* of the international application, this report is based on <i>(replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):</i>					
	Description	, Pages					
	1-90	as originally filed					
	Claims, Nun	nbers					
	1-36	as originally filed					
	□ a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing					
3.	☐ the o☐ the o☐ the o☐ the o	nendments have resulted in the cancellation of: description, pages claims, Nos. drawings, sheets/figs sequence listing (specify): table(s) related to sequence listing (specify):					
4.	Supplement the country the country the country the country the country the second the s	cort has been established as if (some of) the amendments annexed to this report and listed below in made, since they have been considered to go beyond the disclosure as filed, as indicated in the call Box (Rule 70.2(c)). Idescription, pages claims, Nos. Idrawings, sheets/figs Sequence listing (specify): Ideal (specify):					
		m 4 applies, some or all of these sheets may be marked "superseded."					

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
	the entire international application,					
\boxtimes	claims Nos. 34-36 in respect of industrial applicability					
	because:					
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
\boxtimes	no international search report has been established for the said claims Nos					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form		has not been furnished .			
			does not comply with the standard			
	the computer readable form		has not been furnished			
			does not comply with the standard			
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
	See separate sheet for further of	detai	ds .			

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-36

No: Claims

Inventive step (IS) Yes: Claims

No: Claims 1-36

Industrial applicability (IA) Yes: Claims 1-33

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 34-36 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re item V

Reference is made to the following documents

D1: WO-A-03008412 D2: WO-A-02088095 D3: WO-A-02100863 D4: WO-A-9951599

2. Novelty(Art.33(2)PT)

The present application relates to substituted pyrrolo[2,3-b]pyridines or pyrimidines. The prior art documents D1-D4 disclose substituted pyrrolo[2,3-b]pyridines(D1,D4) or pyrimidines (D2,D3) which differ in the nature of the 4-substituent.

The subject matter of the present claims 1-36 can therefore be considered to be novel.

3. Inventive step(Art. 33(3)C)

- **3.1** The object of the present application is to provide compounds which are potent and specific antagonists of CRF receptors and are useful in treating disorders mediated by the said receptors.
- **3.2.** The prior art documents D1 AND D2 diwhich disclose compounds coming structurally very close to the claimed ones and having the same pharmacological activity are considered to represent the closest state of the Art.
- 3.3 The application does not contain any pharmacological data for the alleged activity of the claimed compounds. Furthermore the prior art documents D1 and D2disclose compounds coming structurally very close and having the same pharmacological activity. In view of the close structural relationship to the compounds disclosed in the prior art documents, it is therefore considered as credible that the claimed compounds have the same pharmacological activity. Furthermore it is evident from the prior art compounds that variation of the 4-substituens can change only quantitatively the pharmacological activity and yield more or less active derivatives. It has also to be pointed out that the claimed compounds are selection compounds from the D1, D2

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compounds. An inventive step cannot therefore be acknowledged for the present clams 1-36.

3.4 In order to be able to acknowledge an inventive step the Applicant is kindly requested to submit relevant comparative tests with a representative number of prior art D1 and D2 compounds, which should demonstrate that the compounds of the present invention exhibit improved pharmacological activity compared to prior art compounds.

4. Miscellaneous

- **4.1**The breadth of the claims should be such that all the compounds comprised should present the said properties and/ or advantages or they will be their obvious modifications. Everything falling within a valid claim has to be inventive otherwise the corresponding claim must be amended accordingly.
- 4.2 The following expressions "prodrugs", "aryl", "heteroaryl" have according to he Descriptiona specific meaning; this has to be incorporated in the corresponding claims. Furhermore the said expressions are vague and indefinite and as such render the scope of the corresponding claims unclear. The said expressions are non-limitative and cannot therefore be considered as obvious generalisation of the examples comprised in the description Additionally they render the said claims speculative in that their scope embraces subject matter not yet explored by the Applicant, the effect of which cannot be readily predetermined or assessed.